	Application No.	Applicant(s)
Notice of Allowability	09/586,981	MACDONALD ET AL.
	Examiner	Art Unit
	Leslie R. Deak	3762
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment filed 1 April 2005</u> .		
2. The allowed claim(s) is/are <u>1-28</u> .		
3. The drawings filed on 05 June 2000 are accepted by the Examiner.		
4. Acknowledgment is made of a claim for foreign priority unall All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subministed by the part of the priority documents have a subminister.	been received. been received in Application cuments have been receive of this communication to fil ENT of this application. itted. Note the attached EX	on No ed in this national stage application from the e a reply complying with the requirements AMINER'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)	6 N (1 - 4)	Control of the American (PTO 450)
1. Notice of References Cited (PTO-892)	-	nformal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), ./Mail Date
 Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 	98), 7. Examiner's	s Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	. —	s Statement of Reasons for Allowance
of Biological Material	9.	_ ·· .

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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-28 are allowed.

2. The following is an examiner's statement of reasons for allowance: The prior art fails to disclose or suggest the apparatus as claimed. The prior art fails to disclose a bioreactor with a housing with gas inlet and outlet, along with modules of three coaxially arranged hollow fibers arranged as claimed with a compartment charged with a non-liquid gaseous substance, along with the other steps and limitations as claimed. The closest prior art of record, US 5,015,585 to Robinson discloses only two coaxial hollow fibers and an oxygenating solution that comprises oxygen dispersed in a liquid nutrient medium.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

a. US 5,057,428

Mizutani et al

 i. Bioreactor with dual-fiber configuration in housing and oxygencarrying columns

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b. US 6,582,955 Martinex et al

ii. Bioreactor as blood therapy device with dual-coaxial fiber configuration

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leslie R. Deak whose telephone number is 571-272-4943. The examiner can normally be reached on M-F 7:30-5:00, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela D. Sykes can be reached on 571-272-4955. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

1 June 2005